

CLAIMS

WHAT IS CLAIMED:

1. A process for the production of a fibrous protein, comprising the following steps:

- 5 (a) expression of a precursor fibrous protein in a plant cell, and
(b) incubation of the precursor fibrous protein with a protein processing it.

2. The process according to claim 1, wherein the processing protein is expressed in a plant cell.

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3. The process according to claim 2, wherein the precursor fibrous protein and the protein processing it are expressed in different plant cells.

4. The process according to claim 2, wherein the precursor fibrous protein and
15 the protein processing it are expressed in the same plant cell.

5. The process according to any one of claims 1 to 4, wherein the plant cell is available in the form of a plant.

20 6. The process according to any one of claims 1 to 5, wherein the precursor fibrous protein is a procollagen or a derivative and fragment thereof, respectively.

7. The process according to any one of claims 1 to 5, wherein the precursor fibrous protein is a tropoelastin or a derivative and fragment thereof, respectively.

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8. The process according to any one of claims 1 to 6, wherein the fibrous protein is a collagen or a derivative and fragment thereof, respectively.

9. The process according to any one of claims 1 to 5 and 7, wherein the fibrous
30 protein is an elastin or a derivative and fragment thereof, respectively.

10. The process according to any one of claims 1 to 9, wherein the protein processing precursor fibrous protein is a lysine oxidase.

11. A plant cell, expressing a precursor fibrous protein and a protein processing it.

12. The plant cell according to claim 11, wherein the plant cell is available in the form of a multiplication material.

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13. The plant cell according to claim 11, wherein the plant cell is present in the form of a plant.

14. The plant cell, expressing a protein processing precursor fibrous protein.

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15. The plant cell according to claim 14, wherein the plant cell is available in the form of a multiplication material.

16. The plant cell according to claim 14, wherein the plant cell is available in the form of a plant.

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17. Use of the plant cell according to any one of claims 11 to 16 for the production of a fibrous protein.

18. The fibrous protein, produced according to the process as defined in any one of claims 1 to 10.

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19. The fibrous protein according to claim 18, wherein the fibrous protein is a collagen or a derivative and fragment thereof, respectively.

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20. The fibrous protein according to claim 18, wherein the fibrous protein is an elastin or a derivative and fragment thereof, respectively.